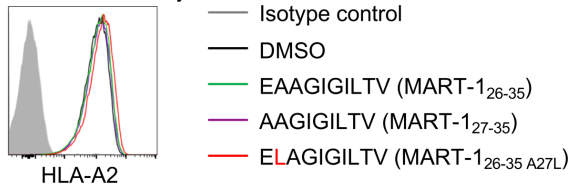
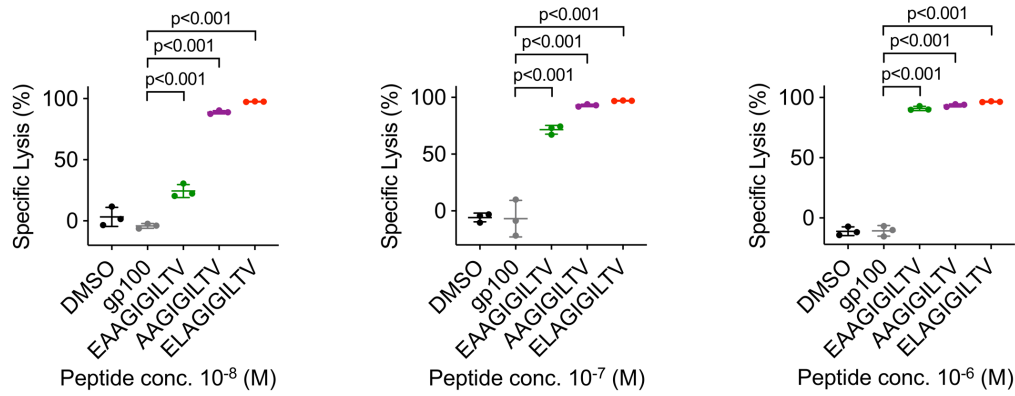


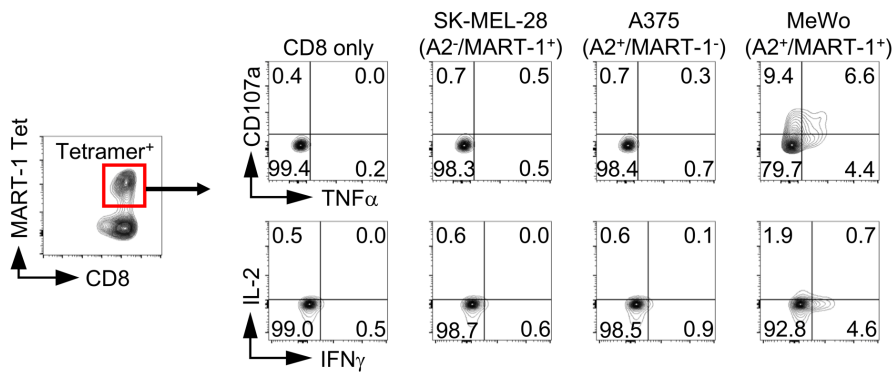
A T2 stabilization assay



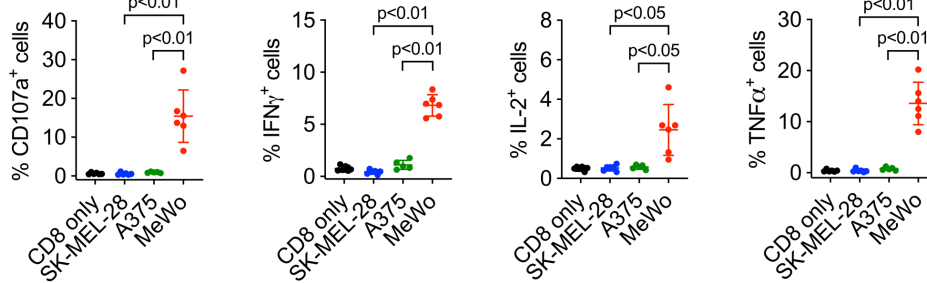
B



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D



E

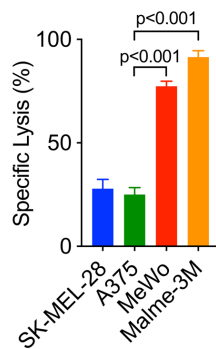


Figure S4. Functional analysis of MART-1 Tet⁺ CD8⁺ T-cells against melanoma cell lines.

(A) HLA stabilization assay with T2 cells. MART-1 peptides (MART-1₂₆₋₃₅; EAAGIGILTV, MART-1₂₇₋₃₅; AAGIGILTV, MART-1₂₆₋₃₅ A27L; ELAGIGILTV) were loaded on T2 cells and expression levels of HLA-A2 were analyzed. (B) Cytotoxic activity of MART-1 Tet⁺ CD8⁺ T-cells against peptide-loaded T2 cells at various peptide concentrations. Data represent mean \pm SD of three experiment replicates and are representative from 3 melanoma patients. Significance was assessed by Student's two-tailed *t* test. (C) Representative staining pattern of MART-1 Tet⁺ CD8⁺ T-cells for CD107a and indicated cytokines. The expanded CD8⁺ T-cells were co-cultured with SK-MEL-28, A375 and MeWo cells. (D) Summary of expression of CD107a, TNF α , IFN γ and IL-2 from melanoma patients' T cells (n=5-6). Significance was assessed by Student's two-tailed paired *t* test. (E) Summary of the cytotoxic activity at E:T ratio of 10:1. Significance was assessed by one-way ANOVA and Tukey's multiple comparisons post-hoc test. Error bars indicate mean \pm SD.